

# FIRE PREVENTION STANDARDS

Subject: Fire Control & Equipment Room Number: 442.201 Date: Revised 1/14/02 Page 1 of 3

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## OBJECTIVE

To provide guidelines for the requirement, construction, and placement of fire control and equipment rooms in commercial buildings. Also, to provide a list of tools and equipment that can be found in the rooms.

Fire control rooms shall be provided for all new buildings equipped with an automatic fire sprinkler system.

Fire equipment rooms shall be provided for all new buildings four or more stories.

## PROCEDURE

### I. Fire Control Room

- A. Fire control rooms shall be provided for all new buildings equipped with an automatic fire sprinkler system.
- B. Fire control rooms shall contain all fire sprinkler system control valves, fire alarm control panels, extra fire sprinkler heads, and other fire equipment required by the Chief.
- C. Fire control rooms shall be located within the building at a location approved by the Chief, and shall be provided with a means to access the room directly from the exterior with an approved door of minimum dimensions of 36" x 80".
- D. Durable signage shall be provided on the exterior side of the access door to identify the fire control room. The sign shall indicate "FIRE CONTROL ROOM" with 3" tall letters that contrast with their background.
- E. A key shall be located within an approved high level Fire District Knox® Company key box located adjacent to the access door on the exterior of the building at 6' above finished floor.
- F. Fire control rooms shall be a minimum dimension of 5' x 7' not less than 35 square feet.
- F. The fire sprinkler riser shall be located on the outside wall between 12" and 18" from that outside wall and at least 12" from any other wall.
- G. The fire equipment room may contain other building service equipment. This other equipment shall not be within 3' in front of any fire equipment in the room.

### II. Fire Equipment Rooms

- A. LOCATION OF ROOMS BY FLOOR:
    - 1. Four story building: One room on the third floor
    - 2. Five story building: One room on the second floor and one room on the fourth floor.
    - 3. Six story building: One room on the third floor and one room on the sixth floor.
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4. Buildings greater than six stories: One room at every third floor, starting at the third floor.

B. ROOM SIZE, SHELVING, CONSTRUCTION AND DIMENSIONS:

1. Room shall be no less than thirty-five square feet.
2. Minimum dimension between at least two opposing walls shall not be less than seven feet.
3. Substantial wood or metal shelving shall be provided so as to support tools and equipment at a height of not less than twenty-four inches or exceeding seventy-two inches.
4. Shelving shall be affixed to a wall to keep from tipping in the event of an earthquake.
5. Air cylinders shall be supported to keep from rolling.
6. A 1/2 inch lip shall be provided on the front of the shelving.
7. The room shall be of not less than one-hour construction with less than a forty-five minute rated door.

**EXCEPTION:** If the room access door is located in a rated stairwell and is separated from the rest of the building including the stairwell, nonrated construction may be used, but not less than that allowed for the type of construction for the building.

8. Room location shall be designated and approved by the local Fire District.
9. The room shall be identified with the words "FIRE EQUIPMENT ROOM" on the door. Lettering shall be no less than one inch in height, with a stroke of not less than 1/2 inch.
10. The room shall be locked and one identified key shall be provided per room in a "Knox Box" mounted adjacent to the fire control room door. Ex. One fire equipment room, one key; two fire equipment rooms, two keys; etc.

C. EQUIPMENT REQUIRED:

1. 12 ea. MSA Composite II Glass Wrapped air bottles, 2216 psig.
  2. 4 ea. American Rubber "Compak" single jacket 1 3/4 inch synthetic jacket hose with "Redhead" couplings (12/3) - 50-foot lengths.
  3. 2 ea. 1 1/2 inch Elkhart Selecto-Matic, model SM-20F.
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4. 2 ea. 2 1/2 inch F NST x 1 1/2 inch M NST chrome reducers.
5. 1 ea. 2 1/2 inch F NST to (2) 1 1/2 inch M NST gated wye.
6. 1 ea. 6 foot fiberglass handle pike pole, T125FG.
7. 1 ea. Mann's fireman's pickhead axe.
8. 1 ea. Mann's fireman's flathead axe.
9. 1 ea. K-Tool lock breaker, KT100.
10. 1 ea. Hooligan Tool.
11. 2 ea. Universal aluminum T1A spanner wrenches.
12. 2 ea. Edwards wire reel with 150 feet of #12-3 wire with 20 amp twist lock 3 prong ends, NEMA No.
13. 2 ea. Circle "D" 500-watt portable lights with base.
14. 1 ea. 3-way adapter with 3 prong 20 amp ends.
15. 2 ea. 10-foot long #12-3 cords with 3 prong 20 amp twist lock male and female ends.
16. 2 ea. Boxes 5/8 inch yellow chalk.
17. 2 ea. Door chocks (rubber or wood).
18. 8 ea. Velcro straps (30 inches long)

(2"/\_10.5"velcro\_\_\_/\_7.5"space\_\_\_/\_10"velcro)

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Mike Dobson, Fire Marshal

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